

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1- 37 (canceled)

Claim 38 (currently amended). An apparatus for exposing a photosensitive material, said photosensitive material having a light receiving surface and being exposed by radiation impinging on said light receiving surface, said apparatus comprising:

a substrate having a substantially planar first surface oppositely spaced apart from a substantially planar second surface; and

an individually addressable Organic Light Emitting Diode (OLED) structure, said structure comprising at least one of a plurality of triplets of elongated arrays of individually addressable Organic Light Emitting Diode (OLED) elements, said Organic Light Emitting Diode (OLED) structure being deposited onto the first surface of said substrate; and

wherein said OLED elements emit light over a broad range of wavelengths, any said OLED element in said at least one of a plurality of triplets of said elongated arrays has a characteristic surface

dimension which is substantially the same for all OLED elements in the array and from which an OLED center point can be defined; and

at least one of a plurality of triplets of elongated arrays of color filter elements, said color filter elements selectively transmitting radiation in a distinct range of wavelengths, having a substantially planar color filter light receiving surface oppositely spaced apart from and substantively parallel to a substantially planar color filter light emitting surface, any color filter element in the array has a characteristic surface dimension which is substantially the same for all color filter elements in the array and from which a center point can be defined, said color filter being formed from at least one color filter material, said at least one color filter material to form said at least one triplet of elongated color filter arrays being deposited onto and in effective light transmission relation to the OLED structure; and wherein the color filter center points for any said color filter array being substantially collinear and aligned with the OLED center points for the OLED array located in effective light transmission relation to that color filter array; and

a substantively transparent layer deposited onto the at least one of a plurality of triplets of elongated array of color filter elements, said layer having a light receiving surface in effective light transmission

relation to said color filter arrays, said light receiving surface oppositely spaced apart from a light emitting surface-and;
wherein each OLED array in the triplet is in effective light transmission relation to the light receiving surface of one color filter array in the triplet thereby constituting an OLED color filter array set, each set in the triplet being aligned in substantially parallel spaced relation with respect to each other set in the triplet, each color filter array in each triplet having elements that are capable of transmitting radiation in a distinct wavelength range different from the distinct wavelength range of the other two arrays in the triplet, each triplet being aligned in substantially parallel spaced relation with respect to any other triplet.

Claim 39 (original). The apparatus of Claim 38 further comprising:
a plurality of driver control circuits for selectively controlling the energizing of said Organic Light Emitting Diode (OLED) elements; and
means of electrically connecting selected ones of said individually addressable light emitting elements in said OLED structure to said selected ones of said driver control circuits.

Claim 40. (canceled)

Claim 41. (currently amended) The apparatus of ~~Claim 40~~ Claim 39 wherein said OLED structure is an actively addressable OLED structure in which each OLED element has a corresponding transistor switch connected between each said OLED elements and corresponding portion of said driver control circuits for controlling the energizing of the corresponding OLED when its said transistor switch is actuated.

Claim 42. (currently amended) The apparatus of ~~Claim 40~~ Claim 39 wherein said OLED structure is a passively addressable OLED structure.

Claim 43. (currently amended) The apparatus of ~~Claim 40~~ Claim 38 wherein the color filter material is an imageable material.

Claim 44. (currently amended) The apparatus of ~~Claim 40~~ Claim 38 wherein the color filter material is a colorant.

Claims 45 - 49. (canceled)

Claim 50 (currently amended). The apparatus of ~~any of Claims 38 or 40-49~~ Claim 38 wherein the planar light emitting surface of said at least one color filter array is oppositely spaced apart at a given distance from and substantively parallel to the light receiving surface of said photosensitive material, the color filter elements in

any of the color filter arrays are spaced apart by a given spacing between centers of the color filters, and the radiation emanating from any color filter in any said array and impinging on said light receiving surface of said photosensitive material defines a pixel area on the light receiving surface of said photosensitive material, said pixel area having a characteristic pixel dimension, and wherein said distance between the planar light emitting surface of the color filter array and the light receiving surface of photosensitive material, the distance between the light receiving surface of said transparent layer and the light emitting surface of said transparent layer, said spacing between centers of the color filters, and said characteristic surface dimension of the color filters are jointly selected so that, at a given pixel area, said pixel area corresponding to a given color filter element in a given color filter array, the exposure of said photosensitive material due to the light intensity from the elements of the given array which are adjacent to said given color filter element and from said given color filter element, is optimized.

Claim 51. (currently amended) The apparatus ~~in any of Claims 40-49~~ of Claim 38 wherein every said color filter element further comprises a region substantially adjoining the entire periphery of said color filter element, and said region substantively absorbing radiation in all three distinct wavelength ranges, each said distinct wavelength range being associated with a color filter in a said triplet.

Claim 52 -69. (canceled)